

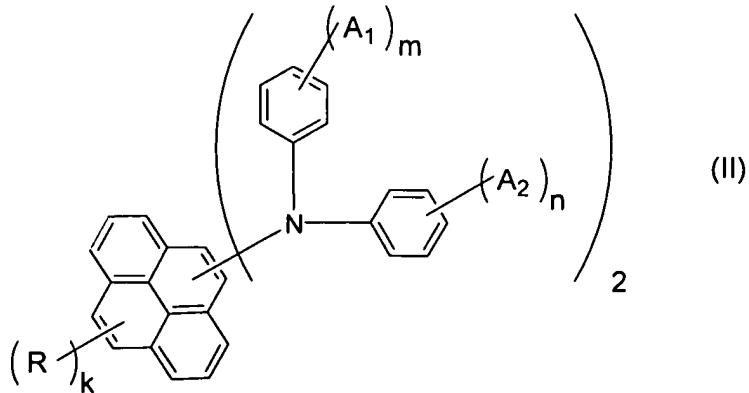
REMARKS

Claims 2, 5, 8 and 10-15, as amended, remain herein. New claims 13-15 have been added. Claims 1, 3, 4, 6, 7 and 9 have been cancelled. Claims 2, 5, 8 and 10-12 have been amended. Support for the amendments may be found throughout the specification (see, e.g., compounds (8) to (32)).

1. Claims 1, 3, 4, 6, 10 and 11 were rejected under 35 U.S.C. § 102(b) over Onuma JP 05-021161. Claims 1, 3, 4, and 6 have been cancelled thereby mooting the rejection as to those claims. Claims 10 and 11 have been amended to depend from claim 2 which was not subject to this rejection. Applicants respectfully request reconsideration and withdrawal of this rejection.

2. Claims 1-6, 10 and 11 were rejected under 35 U.S.C. § 102(b) over Onikubo et al. U.S. Patent 6,280,859. Claims 1, 3, 4, and 6 have been cancelled thereby mooting the rejection as to those claims.

Claim 2 recites an aromatic amine derivative represented by general formula (II):



wherein A<sub>1</sub> and A<sub>2</sub> are each independently a hydrogen atom, an unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted aryl group having 5 to 50 carbon atoms, a substituted or unsubstituted cycloalkyl group having 3 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 carbon atoms, a substituted or unsubstituted arylamino group having 5 to 50 carbon atoms, a cyano group or a halogen atom; with the proviso that at least one of A<sub>1</sub> and A<sub>2</sub> contains any of an unsubstituted alkyl group having 2 or more carbon atoms, a substituted or unsubstituted cycloalkyl group having 3 or more carbon atoms, and a substituted or unsubstituted alkoxy group having 2 or more carbon atoms.

Onikubo does not disclose applicants' claimed aromatic amine derivative. Onikubo says nothing about compounds corresponding to those of applicants' claim proviso requiring that at least one of A<sub>1</sub> and A<sub>2</sub> contains any of an unsubstituted alkyl group having 2 or more carbon atoms, a substituted or unsubstituted cycloalkyl group having 3 or more carbon atoms, and a substituted or unsubstituted alkoxy group having 2 or more carbon atoms.

Onikubo discloses a broad formula but none of Onikubo's exemplified compounds meets all elements of applicants' claim 2. When a compound is not specifically named, but instead it is necessary to select portions of teachings within a reference and combine them, e.g., select various substituents from a list of alternatives given for placement at specific sites on a generic chemical formula to arrive at a specific composition, anticipation can only be found if the classes of substituents are sufficiently limited or well delineated. Ex parte A, 17 USPQ2d 1716 (BPAI 1990); MPEP § 2131.02. The species is anticipated only if one of ordinary skill in the art is able to "at once envisage" the specific compound within the generic chemical formula. See In re

Petering, 301 F.2d 676 (CCPA 1962); MPEP § 2131.02. Furthermore, one may look to the preferred embodiments to determine which compounds can be anticipated. Id.

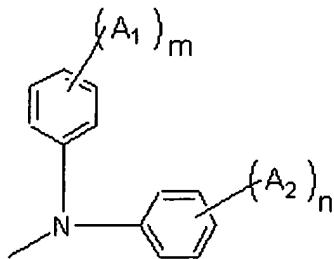
Thus, Onikubo does not disclose all limitations of applicants' claims, and, therefore, it is not an adequate basis for a rejection under § 102(b). Applicants respectfully request reconsideration and withdrawal of this rejection.

3. Claims 1-10 and 12 were rejected under 35 U.S.C. § 102(e) over Seo et al. U.S. Patent Application Publication 2004/0137270. Seo is not de jure prior art to the present application. The prior art date of Seo is its U.S. filing date of December 24, 2003. The priority date of the present application is the March 20, 2003 filing date of Japanese priority application JP 2003-076772. Applicants file herewith a verified English translation of JP 2003-076772 to perfect their claim of priority. Thus, the effective filing date of the present application pre-dates the prior art date of Seo, and therefore, Seo is not de jure prior art to the present application. Applicants respectfully request reconsideration and withdrawal of this rejection.

4. Claims 1-10 and 11 were rejected under 35 U.S.C. § 103(a) over Ichimura et al. JP 10-088122.

Applicants' claims 2 and 8 recite an aromatic amine derivative represented by general formula (II) or (II'), wherein R is a hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted aryl group having 5 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted cycloalkyl group having 3 to 50 carbon atoms, a substituted or unsubstituted

alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 carbon atoms, a substituted or unsubstituted alkylamino group having 1 to 20 carbon atoms, a cyano group or a halogen atom; the two groups represented by the following formula:



in general formula (II) or (II'), may be the same or different from each other, and bond to the pyrene ring at the 1-position and 6-position.

Thus, because applicants' R group is not arylamino, the pyrene ring is substituted with two di-arylamino groups at the 1-position and 6-position. In contrast, Ichimura discloses a pyrene ring that is either substituted with less or more than two di-aryl-amino groups or the two di-aryl-amino groups bond to the pyrene ring at the 1-position and 8-position.

Thus, Ichimura does not disclose all elements of applicants' claimed invention. Further, Ichimura discloses nothing that would have suggested applicants' claimed invention to one of ordinary skill in the art. There is no disclosure or teaching in Ichimura or otherwise in this record, that would have suggested the desirability of modifying any portions thereof effectively to anticipate or suggest applicants' presently claimed invention. Applicants respectfully request reconsideration and withdrawal of this rejection.

5. Claim 12 was rejected under 35 U.S.C. § 103(a) over Onikubo et al. U.S. Patent 6,280,859. Claim 12 depends from claim 2.

As discussed above, Onikubo does not disclose all elements of applicants' claim 2. Further, Onikubo discloses nothing that would have suggested applicants' claimed invention to one of ordinary skill in the art. There is no disclosure or teaching in Onikubo or otherwise in this record, that would have suggested the desirability of modifying any portions thereof effectively to anticipate or suggest applicants' presently claimed invention. Applicants respectfully request reconsideration and withdrawal of this rejection.

6. Claims 1-10 were provisionally rejected for alleged obviousness-type double patenting over claims 1, 21 and 22 of U.S. Patent Application Serial No. 10/617,397; claims 28, 29, 31, 38, 39, 41 and 49 of U.S. Patent Application Serial No. 11/207,933; claims 1-7 and 10 of U.S. Patent Application Serial No. 11/547,233; claims 1, 2, 5, 9, 10, 14, 18 and 22 of U.S. Patent Application Serial No. 11/761,437; claims 1-7, 9, 10 and 13-16 of U.S. Patent Application Serial No. 11/269,661; claims 1, 3-8, 10 and 12 of U.S. Patent Application Serial No. 11/547,306; claims 1-8 of U.S. Patent Application Serial No. 11/596,299; and claims 1-10 of U.S. Patent Application Serial No. 11/575,441. Applicants respectfully request deferral of any such rejection until the current claims of the present application are deemed otherwise allowable.

Serial No. 10/549,801  
Docket No. 28955.4035

Accordingly, this application is now fully in condition for allowance and a notice to that effect is respectfully requested. The PTO is hereby authorized to charge/credit any fee deficiencies or overpayments to Deposit Account No. 19-4293 (Order No. 28955.4035). If further amendments would place this application in even better condition for issue, the Examiner is invited to call applicants' undersigned attorney at the number listed below.

Respectfully submitted,

STEPTOE & JOHNSON LLP

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Houda Morad

Roger W. Parkhurst  
Reg. No. 25,177  
Houda Morad  
Reg. No. 56,742

STEPTOE & JOHNSON LLP  
1330 Connecticut Avenue, NW  
Washington, DC 20036  
Tel: 202-429-3000  
Fax: 202-429-3902